(0	riginal Signature of Member)
115TH CONGRESS 2D SESSION H.R.	
To facilitate a national pipeline of spectrum for other purposes.	or commercial use, and for
IN THE HOUSE OF REPRE	ESENTATIVES
Mr. Lance introduced the following bill; which we on	as referred to the Committee
A BILL	1
To facilitate a national pipeline of speuse, and for other pur	
1 Be it enacted by the Senate an	d House of Representa-
2 tives of the United States of America	in Congress assembled,
3 SECTION 1. SHORT TITLE.	

- 7 SEC. 2. SENSE OF CONGRESS.
- 8 It is the sense of Congress that the United States

magnetic Spectrum Act" or the "AIRWAVES Act".

This Act may be cited as the "Advancing Innovation

and Reinvigorating Widespread Access to Viable Electro-

9 should strive to—

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1	(1) advance innovation with respect to, and in-
2	vestment in, wireless broadband Internet access;
3	(2) promote the benefits of connecting all indi-
4	viduals in the United States to quality wireless
5	broadband Internet access, including those individ-
6	uals in rural communities; and
7	(3) support comprehensive, technology-neutral
8	spectrum policy that includes licensed, unlicensed,
9	and shared use of spectrum bands.
10	SEC. 3. DEFINITIONS.
11	In this Act—
12	(1) the term "appropriate committees of Con-
13	gress' means—
14	(A) the Committee on Commerce, Science,
15	and Transportation of the Senate;
16	(B) the Committee on Energy and Com-
17	merce of the House of Representatives; and
18	(C) any other congressional committee
19	with jurisdiction over a matter;
20	(2) the term "Commission" means the Federal
21	Communications Commission;
22	(3) the term "eligible Federal entity" means an
23	entity described in section 113(g)(1) of the National
24	Telecommunications and Information Administration
25	Organization Act (47 U.S.C. 923(g)(1));

1	(4) the term "eligible frequency" means a fre-
2	quency with respect to which the costs incurred by
3	an eligible Federal entity in relocating from the fre-
4	quency may be reimbursed from the Spectrum Relo-
5	cation Fund;
6	(5) the term "Federal entity" has the meaning
7	given the term in section 113(l) of the National
8	Telecommunications and Information Administration
9	Organization Act (47 U.S.C. 923(l));
10	(6) the term "NTIA" means the National Tele-
11	communications and Information Administration;
12	(7) the term "Spectrum Frontiers proceeding"
13	means the Report and Order and Further Notice of
14	Proposed Rulemaking in the matter of Use of Spec-
15	trum Bands Above 24 GHz for Mobile Radio Serv-
16	ices, adopted by the Commission on July 14, 2016
17	(FCC 16–89);
18	(8) the term "Spectrum Relocation Fund"
19	means the fund established under section 118 of the
20	National Telecommunications and Information Ad-
21	ministration Organization Act (47 U.S.C. 928); and
22	(9) the term "system of competitive bidding"
23	means a system of competitive bidding conducted
24	under section 309(j) of the Communications Act of
25	1934 (47 U.S.C. 309(j)).

1 SEC. 4. SPECTRUM FRONTIERS PROCEEDING.

2	Not later than 1 year after the date of enactment
3	of this Act, the Commission shall complete the rule mak-
4	ing to which the Spectrum Frontiers proceeding relates.
5	SEC. 5. EXPANDING ACCESS TO COMMERCIAL SPECTRUM.
6	(a) FCC RESPONSIBILITIES.—
7	(1) In General.—The Commission, in con-
8	sultation with the NTIA, shall—
9	(A) not later than December 31, 2018,
10	complete a system of competitive bidding to
11	grant priority access licenses for the use of 70
12	megahertz of spectrum in the frequencies be-
13	tween 3550 megahertz and 3650 megahertz;
14	(B) not later than December 31, 2018,
15	complete a system of competitive bidding for
16	the use of spectrum in frequencies between—
17	(i) 24250 megahertz and 24450
18	megahertz;
19	(ii) 24750 megahertz and 25250
20	megahertz;
21	(iii) 27500 megahertz and 28350
22	megahertz, consistent with the spectrum
23	sharing framework adopted for that fre-
24	quency band as part of the Spectrum
25	Frontiers proceeding;

1	(iv) 37600 megahertz and 38600
2	megahertz;
3	(v) 38600 megahertz and 40000
4	megahertz; and
5	(vi) 47200 megahertz and 48200
6	megahertz; and
7	(C) not later than December 31, 2020,
8	complete a system of competitive bidding for
9	the use of spectrum in frequencies between—
10	(i) 31800 megahertz and 33400
11	megahertz;
12	(ii) 42000 megahertz and 42500
13	megahertz; and
14	(iii) 50400 megahertz and 52600
15	megahertz.
16	(2) Requirements relating to 3550-3700
17	MHZ BAND.—Consistent with the Commission's rules
18	governing the Citizens Broadband Radio Service and
19	the Report and Order and Second Further Notice of
20	Proposed Rulemaking in the matter of Amendment
21	of the Commission's Rules with Regard to Commer-
22	cial Operations in the 3550-3650 MHz Band, adopt-
23	ed by the Commission on April 17, 2015 (FCC 15–
24	47)—

1	(A) 30 megahertz of spectrum in the fre-
2	quencies between 3550 megahertz and 3650
3	megahertz shall be reserved for general author-
4	ized access use; and
5	(B) the frequencies between 3650 mega-
6	hertz and 3700 megahertz shall be reserved for
7	grandfathered wireless broadband licensees and
8	general authorized access users.
9	(b) Identifying Frequencies Between 7125
10	Megahertz and 8400 Megahertz to Be Utilized
11	FOR UNLICENSED PURPOSES.—
12	(1) IN GENERAL.—Not later than 1 year after
13	the date of enactment of this Act, the NTIA, in con-
14	sultation with the Commission, shall identify any
15	frequency between 7125 megahertz and 8400 mega-
16	hertz with respect to which there is the potential for
17	unlicensed use without causing harmful interference
18	with incumbents.
19	(2) Rule Making.—If the NTIA, in consulta-
20	tion with the Commission, makes an identification
21	described in paragraph (1), the Commission shall
22	consider initiating a rule making with respect to the
23	unlicensed use described in that paragraph.
24	(c) REPORT ON REALLOCATION OF CERTAIN INCUM-
25	BENT FEDERAL STATIONS.—

1	(1) In General.—Not later than December 31,
2	2020, the NTIA, in consultation with the Director
3	of the Office of Management and Budget, shall sub-
4	mit to the appropriate committees of Congress a re-
5	port relating to the relocation of incumbent Federal
6	stations authorized to use spectrum in the fre-
7	quencies between 1300 megahertz and 1350 mega-
8	hertz and between 1780 megahertz and 1830 mega-
9	hertz in order to facilitate the reallocation of such
10	spectrum from Federal to non-Federal use.
11	(2) Timing.—The relocation described in para-
12	graph (1) with respect to the frequencies between
13	1780 megahertz and 1830 megahertz shall take
14	place not earlier than 2023.
15	(d) Amendments to the Spectrum Pipeline Act
16	OF 2015.—Section 1004 of the Spectrum Pipeline Act of
17	2015 (47 U.S.C. 921 note) is amended—
18	(1) in subsection (a), by striking "30 mega-
19	hertz" and inserting "100 megahertz"; and
20	(2) in subsection (c)(1)(B), by striking "July 1,
21	2024" and inserting "July 1, 2023".
22	SEC. 6. MODERNIZING MID-BAND SPECTRUM.
23	(a) In General.—
24	(1) Spectrum identification.—Not later
25	than December 31, 2019, the Commission, in con-

- 1 sultation with the NTIA, shall identify up to 500 2 megahertz of additional spectrum in the frequencies between 3700 megahertz and 4200 megahertz to 3 4 make available for commercial licensed use. (2) Spectrum Auction.—Not later than De-6 cember 31, 2022, the Commission shall complete a system of competitive bidding for the use of spec-7 8 trum identified under paragraph (1). 9 (b) Rule Making on the Unlicensed Use of THE FREQUENCY BAND BETWEEN 5925 MEGAHERTZ 10 AND 7125 MEGAHERTZ.—Not later than 180 days after 11 12 the date of enactment of this Act, the Commission, in consultation with the NTIA, shall issue a notice of proposed rule making with respect to creating opportunities for the 14 15 unlicensed use of spectrum in the frequencies between 16 5925 and 7125 megahertz without causing harmful interference with any incumbents in that band. 18 SEC. 7. RURAL SET-ASIDE. 19 IN General.—Notwithstanding (a) section 20 309(j)(8) of the Communications Act of 1934 (47 U.S.C. 21 309(j)(8)), the Commission shall allocate 10 percent of the proceeds from each system of competitive bidding con-23 ducted under this Act for the deployment of wireless infra-
- 24 structure in areas that the Commission has determined

are underserved or unserved with respect to wireless broadband Internet access service. 3 (b) LIMITATIONS.—No amounts allocated under sub-4 section (a) may be combined with amounts that are used 5 to fund any other program that is in existence on the date on which the allocation is made, including any program 6 established under section 254 of the Communications Act 8 of 1934 (47 U.S.C. 254). SEC. 8. SPECIAL RULES. 10 With respect to any frequency band described in this Act (in this section referred to as the "covered band"), 12 if the relocation of an incumbent from the covered band to another equivalent frequency band is not possible, and if the Commission determines that no mitigation tech-14 15 nology, alternative sharing approach, or incentives-based approach would reliably prevent harmful interference to 16 incumbents in the covered band, the Commission— 18 (1) shall provide notification of that determina-19 tion to the appropriate committees of Congress and 20 the NTIA; and 21 (2) may not proceed with any action, including 22 relocating incumbents from the covered band or per-23 mitting new entrants into the covered band, that 24 may result in the dislodging or harming of any in-25 cumbent in the covered band until the Commission

1	can ensure that any such action will neither cause
2	harmful interference with nor unreasonably con-
3	strain an incumbent in the covered band.
4	SEC. 9. COMMISSION STUDY ON ENHANCING THE BENEFITS
5	OF UNLICENSED SPECTRUM FOR RURAL
6	COMMUNITIES.
7	(a) In General.—Not later than 1 year after the
8	date of enactment of this Act, the Commission shall con-
9	duct, and submit to the appropriate committees of Con-
10	gress the results of, a study regarding how unlicensed
11	spectrum can be further utilized to assist in—
12	(1) the provision of healthcare in rural areas;
13	(2) distance learning; and
14	(3) facilitating innovations in agriculture.
15	(b) RECOMMENDATIONS.—The results of the study
16	submitted under subsection (a) shall include recommenda-
17	tions regarding—
18	(1) overcoming barriers to the use of unlicensed
19	spectrum for the purposes described in that sub-
20	section; and
21	(2) how to further utilize unlicensed spectrum
22	to meet the needs of rural communities with respect
23	to broadband Internet access service.

1 SEC. 10. GAO STUDY ON SPECTRUM RELOCATION FUND AL-

- 2 LOCATIONS.
- Not later than 180 days after the date of enactment
- 4 of this Act, the Comptroller General of the United States
- 5 shall conduct, and submit to the appropriate committees
- 6 of Congress the results of, a study to determine the effi-
- 7 ciency with which amounts in the Spectrum Relocation
- 8 Fund are transferred to eligible Federal entities that will-
- 9 ingly relocate from eligible frequencies.
- 10 SEC. 11. RULES OF CONSTRUCTION.
- 11 (a) Frequency Ranges.—Any frequency range de-
- 12 scribed in this Act shall be construed as including the
- 13 upper and lower frequency in the frequency range.
- 14 (b) Assessment of Electromagnetic Spectrum
- 15 REALLOCATION.—Nothing in this Act may be construed
- 16 as affecting any requirement under section 156 of the Na-
- 17 tional Telecommunications and Information Administra-
- 18 tion Organization Act (47 U.S.C. 921 note).